I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an experience of the correspondence of the corresponde addressed to: Assistant Commissioner for Patents, P.O. Box 2327, Arlington, VA, on April 12, 2002.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of Georg JANDER et al Serial No. 10/004,827 Filed: December 7, 2001 For: Plants with Imidazolinone-Resistant)

Examiner: To be Assigned

Art Unit: To be Assigned

Atty. Docket: 38-10(15820)B

Information Disclosure Statement

Assistant Commissioner for Patents P.O. Box 2327 Arlington, VA 22202

ALS

Sir:

The attention of the Examiner is invited to the documents listed on the attached Form PTO-1449. Copies of the listed documents are attached.

It is respectfully requested that the information above be expressly considered during the prosecution of this application, and that the reference be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Certification and/or fee

Because this Information Disclosure Statement is being submitted prior to issuance of the first action on the merits of the above-captioned application, no certification or fee is required.

Respectfully submitted,

Connie M. Caron Agent for Applicants

Reg. No. 48,131

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		5,605,011		Bedbrook et al	02-25-1977		
		5,731,180		Dietrich	03-24-1998		
		5,767,361		Dietrich	06-16-1998		
		5,767,366		Sathasivan et al	06-16-1998		
		5,141,870		Bedbrook et al	08-25-1992		
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	FOREIGN PATENT DOCUMENTS									
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



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	_	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS]
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
		G. W. HAUGHN et al. "A Mutation Causing imidizolinone Resistance Maps to the Csr1 Locus of Arabidopsis thaliana" Plant Physiology, 92:1081-1085 (1990)	
		B. J. MAZUR et al. "Isolation and Characterization of Plant Genes Coding for Acetolactate Synthase, the Target Enzyme for Two Classes of Herbicides" Plant Physiology, 85:1110-1117 (1987)	
		G. W. HAUGHN et al. "Sulfonylurea-resistant mutants of Arabidopsis thaliana" Mol Gen Genet 204:430-434 (1986)	
		B. J. MAZUR et al. "Transformation with a mutant Arabidopsis acetolactate synthase gene renders tobacco resistant to sulfonylurea herbicides" Mol Gen Genet 211:266-271 (1988)	
		S. R. BAERSON et al "Comparison of frequencies of individuals resistant to imazethapyr, chlorsulfuron, and glyphosate in EMS-mutagenized populations of Arabidopsis thaliana (cv. Col-0). Proceedings, 10th International Conference on Arabidopsis Research, July 4-8 1999, Melbourne, pp 5-7.	
		P. BOUTSALIS et al. "Molecular basis of resistance to acetolactate synthesis-inhibiting herbicides in Sisymbrium orientale and Brassica tournefortii" Pesticide Science 55:507-516 (1999)	
		P. BERNASCONI et al. "A Naturally Occurring Point Mutation Confers Broad Range Tolerance to Herbicides That Target Acetolactate Synthesis" J Biol Chem 270:17381-17385 (1995)	
		K. RAJASEKARAN et al. "Selection and Charaterization of Mutant Cotton (Gossypium hirsutum L.) Cell Lines Resistant to Sulphonylurea and Imidazolinone Herbicides" Plant Science 119:115-124 (1996)	
		A. K. CHANG et al. " Herbicide-resistant forms of Arabidopsis thaliana acetohydroxyacid synthase: characterization of the catalytic properties and sensitivity to inhibitors of four defined mutants" Biochem J 333:765-777 (1998)	
		T. R. WRIGHT et al. "Corn (Zea mays) acetolactate synthase sensitivity to four classes of ALS-inhibiting herbicides" Weed Science 46:8-12 (1998)	
		G. MOURAD et al. "A double mutant allele, csr1-4, of Arabidopsis thaliana encodes an acetolactate synthase with altered kinetics" Planta 196:64-68 (1995)	
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¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.



^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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thor (in CAPITAL LETTERS), title of the article (when appropriate), title of the armal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. esistance to sulfonylureas and imidazolinones conferred by an gene with separate mutations for selective resistance Mol Gen Genet Herbicide-tolerant mutants of corn Genome 31:994-999 al. "Selection for resistance to the herbicide aclones of soyabean" Weed Research 41:143-154 (2001) Acid Residues Conferring Herbicide Tolerance in Tobacco Acetolactate Biophysical Research Communications 279:462-467 (2000) ecular Design and Genetic Engineering of Herbicide Resistant Crops by directed Mutagenesis of Acetohydroxyacid Synthase" J Mol Biol
Herbicide-tolerant mutants of corn" Genome 31:994-999 al. "Selection for resistance to the herbicide aclones of soyabean" Weed Research 41:143-154 (2001) Acid Residues Conferring Herbicide Tolerance in Tobacco Acetolactate Biophysical Research Communications 279:462-467 (2000) ecular Design and Genetic Engineering of Herbicide Resistant Crops by directed Mutagenesis of Acetohydroxyacid Synthase" J Mol Biol
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Acid Residues Conferring Herbicide Tolerance in Tobacco Acetolactate Biophysical Research Communications 279:462-467 (2000) ecular Design and Genetic Engineering of Herbicide Resistant Crops by directed Mutagenesis of Acetohydroxyacid Synthase" J Mol Biol
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directed Mutagenesis of Acetohydroxyacid Synthase" J Mol Biol
netic and biochemical characterization of corn inbred lines ea herbicide primisulfuron" Theor Appl Genet 80:353-358 (1990)
lutations in corn (Zea mays L.) conferring resistance to "Theor Appl Genet 83:65-70 (1991)
echanism of Sulfonylurea Herbicide Resistance in Kochia scoparia" Plant Physiol. 93:55-61 (1990)
ack of Cross-Resistance of Imidazolinone-Resistant Cell P. Mill. to Chlorsulfuron" Plant Physiol 94:1111-1115 (1990)
AN et al. "Acetolactate Synthase Inhibiting ne Regulatory Site" Plant Physiol 96:310-313 (1991)
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¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.



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